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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/525,483	02/23/2005	Johan Cornelis Talstra	NL 030988	4909

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PHILIPS INTELLECTUAL PROPERTY & STANDARDS  
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BRIARCLIFF MANOR, NY 10510

EXAMINER

AZARIAN, SEYED H

ART UNIT	PAPER NUMBER
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2624

MAIL DATE	DELIVERY MODE
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12/14/2007

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

<b>Office Action Summary</b>	<b>Application No.</b> 10/525,483	<b>Applicant(s)</b> TALSTRA ET AL.	
	<b>Examiner</b> Seyed Azarian	<b>Art Unit</b> 2624	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) ☒ Responsive to communication(s) filed on 23 February 2005.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) ☒ Claim(s) 1-7 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-7 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 23 February 2005 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some \* c) ☐ None of:
- ☒ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)            | 4) <input type="checkbox"/> Interview Summary (PTO-413)           |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)   | Paper No(s)/Mail Date. _____                                      |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date <u>8/21/2006</u> .   | 6) <input type="checkbox"/> Other: _____                          |

## DETAILED ACTION

### *Specification*

1. This application does not contain an abstract of the disclosure as required by 37 CFR 1.72(b). An abstract on a separate sheet is required.

### Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

3. Claims 1-7, are rejected under 35 U.S.C. 102(e) as being anticipated by Rhoads et al (U.S. patent 7,050,603).

Regarding claim 1, Rhoads discloses a method of detecting a watermark in a multimedia signal being rendered by an application executed by a computer system in a window of a display screen connectable to said computer system, said window covering a part of the image area of said display screen (column 5, lines 39-53, on the end user side, there are two places for network connectivity, rendering of linked information, and user interaction. Internet connectivity can be included in the video display device or associated set-top box or in a portable display device, such as a personal laptop. The rendering of the linked information can occur on the video display, possibly using picture-in-picture technology so others can still see the original video, or in the portable display device, such as a laptop since Internet browsing can be a personal

experience. User interaction with the system, such as selecting the object to find linked information can happen with the video display, such as pointing with a remote, or with a portable display device, such as using a mouse on a laptop. Specific implementations can include a variety of combination of these components);

the method comprising the steps of: examining the video signal being generated by said computer system and applied to said display screen to locate image areas in which the video signal changes from frame to frame (column 6, lines 15-21, in other words, a process at the end-user side maps the location of the user selection to an identifier based on the locations encoded along with the identifiers in the content. For example, a segment of the audio track that is intended to be played with a corresponding video “frame to frame” sequence may include a watermark or watermarks that carry one or more pairs of identifier and locations);

defining a bounding box around said image areas to provide an area of interest (column 6, lines 25-26, a modification includes providing bounding locations in the watermark);

and detecting the watermark in said area of interest ( column 6, lines 26-29, determining whether the user’s selection is within this area, as opposed to using the closest watermark location to the user’s selection).

Regarding claim 2, Rhoads discloses a method as claimed in claim 1, wherein said bounding box is rectangular (see claim 1, also column 10, lines 1-2, the screen extents may be as coarse as a bounding rectangle or a polygonal shape entered by drawing a boundary around an object via a video editing tool).

Regarding claim 3, Rhoads discloses a method as claimed in claim 2, in which the watermark detector is arranged to detect the watermark in a image having a predetermined

resolution, the method further comprising the step of scaling the area of interest to said predetermined resolution (column 11, lines 32-45, a more efficient approach is to implement a watermark screen that invokes a watermark decoder only when watermark data is likely to be present. A control signal sent in or with the video content can be used to invoke a watermark decoder. The control signal may be an in-band signal embedded in the video content, such as a video or audio watermark. For example, a watermark detector may look for the presence of a watermark, and when detected, initiate a process of decoding a watermark payload, accessing information or actions linked via an object identifier in the payload, and displaying the linked information or actions to the user. The control signal may be one or more control bits in a watermark payload decoded from a watermark signal, also column 13, and lines 47-49, the location code is specified at a reference frame resolution, and the user selection coordinates are normalized to this reference resolution).

Regarding claim 4, Rhoads discloses a method as claimed in claim 1, further comprising the steps of examining the video signal for further areas of interest, and detecting the watermark in said further areas of interest (column 12, lines 8-17, the decoding process may focus a watermark decoding operation on a spatial region around a screen location of a video display selected by the user. Alternatively, the user might issue a command to look for enabled content, and the decoding process would initiate a watermark detector on frames of video or audio content in temporal proximity to the time of the user's request. The decoding process may buffer frames of the most recently received or played audio or video for the purpose of watermark screening in response to such requests).

Regarding claim 5, Rhoads discloses a computer system arranged to execute an application which renders a possibly watermarked multimedia signal in a window of a display screen connectable to said computer system, said window covering a part of the image area of said display screen, the computer system comprising (column 12, lines 19-25, one configuration is video player with an interactive user interface that displays video content and implements watermark enabled features. In this configuration, the player decodes the watermark, displays video content, and enables the user to select video objects via its interactive user interface. The player may have a local database for looking up the related information or action of an identifier extracted from a video object);

means for examining the video signal being generated by said computer system and applied to said display screen to locate image areas in which the video signal changes from frame to frame; means for defining a bounding box around said image areas to provide an area of interest; and a watermark detector for detecting the watermark in said area of interest (column 12, line 60 through column 13, line 8, the local processing system renders the video content 810. In a PC, the rendering process includes converting the video signal to a format compatible with the video controller in the computer and writing the video to video memory in the video controller 812. The video controller 812 then displays the video signal on a display device 814. As the video is being rendered, the local processing system buffers frames (816) of audio or video for watermark detecting and decoding. In a PC, the buffering may be integrated with rendering the video to video memory or may be implemented as a separate process (e.g., allocating separate video buffers in main memory or video memory). Also, depending on the

nature of the video signal and encoding process, the buffer may store frames of compressed video content or decompressed video content from which watermarks are detected and decoded).

Regarding claim 6, Rhoads discloses a graphics card for use in a computer system arranged to execute an application which renders a possibly watermarked multimedia signal in a window on a display screen connectable to said graphics card, said window covering a part of the image area of said display screen, the graphics card comprising: means for examining the video signal being generated by said computer system and applied to said display screen to locate image areas in which the video signal changes from frame to frame; means for defining a bounding box around said image areas to provide an area of interest; and a watermark detector for detecting the watermark in said area of interest (FIG. 1A, step 104, column 4, lines 8-30, is a flow diagram depicting a process for encoding and decoding watermarks in content to convey auxiliary information 100 about video objects in the content. An embedding process 102 encodes the auxiliary information into a watermark embedded in the video content. A transmitter 104 then distributes the content to viewers, via broadcast, electronic file download over a network, streaming delivery over a network. A receiver 106 captures the video content and places it in a format from which a watermark decoder 108 extracts the auxiliary information. A display 110 displays the video to a viewer. As the video is being displayed, a user interface 114 executes and provides visual, audio, or audio-visual information to the user indicating that the video is embedded with auxiliary information or actions. This user interface may be implemented by superimposing graphical information over the video on the display 110. Alternatively, the decoder can pass auxiliary object information to a separate device, which in turn, executes a user interface. In either case, the user interface receives input from the user, selecting a video object.

In response, it performs an action associated with the selected object using the auxiliary object information decoded from the watermark).

With regard to claim 7, the arguments analogous to those presented above for claims 1 and 6 are respectively applicable to claim 7.

### Other prior art cited

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

(U.S. patent 7,239,747) to Bresler et al is cited for method and system for locating position in printed texts and delivering multimedia information.

(U.S. patent 6,411,725) to Rhoads is cited for watermark enabled video objects.

(U.S. patent 4,628,362) to Waehner is cited for combined video AGC and digitizing circuit.

(U.S. patent 3,665,162) to Yamamoto et al is cited for identification system.

### **Contact Information**

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Seyed Azarian whose telephone number is (571) 272-7443. The examiner can normally be reached on Monday through Thursday from 6:00 a.m. to 7:30 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matthew Bella, can be reached at (571) 272-7778. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.




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Information regarding the status of an application may be obtained from the Patent Application information Retrieval (PAIR) system. Status information for published application may be obtained from either Private PAIR or Public PAIR.

Status information about the PAIR system, see [http:// pair-direct.uspto.gov](http://pair-direct.uspto.gov). Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

*Seyed Azarian*  
*Patent Examiner*  
*Group Art Unit 2624*  
December 8, 2007

  
**SEYED AZARIAN**  
**PRIMARY EXAMINER**